



Cal/EPA

Department of
Toxic Substances
Control

245 West Broadway,
Suite 350
Long Beach, CA
90802-4444

January 13, 1998

Pete Wilson
Governor

Peter M. Rooney
Secretary for
Environmental
Protection

Mr. Joseph Joyce
BRAC Environmental Coordinator
U.S. Marine Corps Air Station - El Toro
P. O. Box 95001
Santa Ana, California 92709-5001

Dear Mr. Joyce:

**COMMENTS ON DRAFT SOIL VAPOR EXTRACTION PILOT TEST
SUMMARY REPORT, SITE 24 (VOC SOURCE AREA), MARINE CORPS AIR
STATION (MCAS) EL TORO**

The Department of Toxic Substances Control (DTSC) has completed the review of the above subject document dated November 1997, prepared by Bechtel National, Inc. The report presents the results of soil vapor extraction (SVE) pilot tests conducted during 1996 and 1997 at Site 24, the VOC Source Area. SVE pilot tests were conducted to evaluate the feasibility of using SVE to remove VOCs from the contaminated soils at Site 24; evaluating SVE radius of influence; establishing the operating parameters to optimize SVE performance; and estimating the mass of VOCs removed during the pilot tests. The calculated amounts of VOCs removed as a result of the SVE pilot tests included TCE (821 pounds), Freon 113 (540 pounds), 1,1-DCE (78.2 pounds), and PCE (2 pounds).

DTSC concurs with the recommendations provided in Section 5.2 of the report. In particular, additional wells are necessary to characterize the permeability to airflow, radius of influence and soil gas time. We want to point out the discrepancy in the Borehole Log for boring number 24B9, in Appendix A, page A-12. A note at the bottom of the page states that "From 90-115 ft. (Below ground surface (bgs)), borehole was backfilled with bentonite chips. From 0-90 ft. (bgs), borehole was enlarged from 8" diameter to 12" diameter". This note is inconsistent with the well construction detail on page A-69 which states that the borehole was enlarged to 12" diameter from 0.0-112 feet bgs. If the well construction detail is correct, the boring log notes for boring number 24B9 should be revised in the final report.

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If you have any questions, please call me at (562) 590-4891.

Sincerely,



Tayseer Mahmoud
Remedial Project Manager
Base Closure Unit
Office of Military Facilities
Southern California Operations

cc: Mr. Glenn R. Kistner
Remedial Project Manager
U. S. Environmental Protection Agency
Region IX
Superfund Division (SFD-8-2)
75 Hawthorne Street
San Francisco, California 94105-3901

Mr. Lawrence Vitale
Remedial Project Manager
California Regional Water Quality
Control Board
Santa Ana Region
3737 Main Street, Suite 500
Riverside, California 92501-3339

Mr. Gregory F. Hurley, Esq.
Brown, Pistone, Hurley & Van Vlear
8001 Irvine Center Drive, Suite 900
Irvine, California 92618-2921

Mr. Andy Piszkin
Remedial Project Manager
Naval Facilities Engineering Command
Southwest Division - Code 1831.AP
1220 Pacific Highway
San Diego, California 92132-5187